What are Script files (.scr)

• They execute a series of AutoCAD commands automatically
• Script files are like macros that can be created in your word processor (usually in Notepad)
Why should you use Scripts

• Speed
  – It is a much faster typist than you are
• Learning Curve
  – You as a AutoCAD operator already know the “programming language”
• Standards
  – It can run automatically at startup
• Unattended Operations
  – It is the basis for batch processing .dwg’s

Scripts can be used on:

• AutoCAD 2000
  – All releases of AutoCAD
• AutoCAD LT
  – Great programming for LT

Characteristics of Scripts

• They must use the .scr filename extension
• They are text-only (ASCII) files
• They must use command line syntax
Things to remember...

- Try it on the AutoCAD command line first, that will help you understand when and how to use the syntax
- Every space is meaningful
- You must suppress all dialog boxes (CMDDIA, EXPERT, FILEDIA)

Unsuccessful Script Routine

Add to your Search Path
Running Scripts

- Use SCRIPT command
- TOOLS > Run Script...

Simple Script - Setting the Units

-units  Invoke the units command
4   Format (Architectural)
4   Smallest fraction (1/4’’)
2   Angle measure(Degrees/minutes/seconds)
4   Display of angles (Fractional places)
w   Direction for angle (West - 9 o’clock)
n   Measure angles clockwise? (No)

Layout Options for Scripts

- One line per entry
- Everything on one line with spaces
- One line per command and option
- Mixed
  -LAYER New fl1,fl1-dim,fl1-txt
  Color 2 fl1
  Color 3 fl1-dim
  Color 4 fl1-txt
Breaking Down More SCR files

- Setup.scr
- Setup-all.scr
- Purge.scr
- Rectang.scr
- Permit.scr

Script vs. Template

![Image of software interface]

Startup with a Script

- Use switch /b to start a script
- Add name of script after switch
- Use a DOS batch file for startup or
- Add switch to desktop icon

C:\ADTR2\acad.exe /b c:\scripts\setup.scr
Drawing Setup

- Why a script instead of a .DWT file?
  - Works with existing drawings
  - Can set variables stored in registry
- What can be included?
  - layer names and definitions
  - settings for variables
  - text or dimension style creation
  - limits, drawing aids, etc.

Making Slide

- MSLIDE (Make Slide)
  - This will save the file as a SLD extension
  - You can create a SCR file that will run SLD files - one after another

Special commands for Scripts

- Backspace - pauses a script in progress
- RESUME - resumes a paused script
- ; - prevents text from executing
- DELAY - delays next step in script
- RSCRIPT - repeats entire script
Adding to a Toolbar

• Creating custom icons/toolbar with macros

Productive Tips - Non Script

EXPLORER, START EXPLORER, 1, "Directory to start in:

`C:\((command "EXPLORER" (strcat "/e," (getvar "DWGPREFIX"))

ScriptPro

• AutoCAD 2000 Migration Tools
Multiple Drawings

- ACAD 2000 Migration Assistance
- Dialog box interface
- ScriptPro Saving Commands
  - scr-dxfout-2000; scr-dxfout-r12;
  - scr-dxfout-r13; scr-dxfout-r14
  - scr-saveas-2000;
  - scr-saveas-r13; scr-saveas-r14

Batch Scripts...

- Save as???
  - R12 - 2000 dwg
  - R12 - 2000 dxf
  - Dwf (Web files)
- External Reference
  - Architectural Stamp

ScriptPro Commands

- Keywords within ScriptPro
  - <acet:cFolderName>
  - <acet:cBaseName>
  - <acet:cExtension>
  - <acet:cFileName>
  - <acet:cFullFileName>
ScriptPro Commands

- Calling Scripts Within Scripts
  *call place-attrib.scr*
- Usable with ScriptPro
- Usable with new SPSCRIPT command

ScriptPro Sample

```
;MAIN.SCR
zoom e
  call update-title.scr
  call place-attrib.scr
  call <acet:cBaseName>-plot.scr
  scr-saveas-2000
```

Multiple Drawings

- Use a script, lisp file and batch file
- Automatically modify many drawings
  - Extract attributes from multiple drawings
  - Reduce the size of multiple drawings
  - Anything else you might want to do
Systems Variables Information

- This is already in your AutoCAD software

(load "acadinfo.lsp")
vars2scr
Enter a script name

Systems Variables Information

Purging Drawings-Multiple.lsp

(defun c:wbout (/ dn pa padn x)
  (setq dn (getvar "dwgname"))
  (setq pa (getvar "dwgprefix"))
  (setq padn (strcat path name))
  (setq x(getvar "expert"))
  (setvar "expert" 4)
  (command "wblock" padn "**")
  (setvar "expert" x)
)
Purging Drawings-Multiple.scr

(load"multiple")
ZOOM All
WBOUT
Y

Purging Drawings-Multiple.bat

for %%f in (c:\test\*.dwg) do start /wait c:\AC2K\acad.exe %%f /b multiple.scr
• Starts AutoCAD
• Opens first drawing in folder “C:\test”
• Runs script named multiple.scr
• Script loads and runs multiple.lsp
• Script quits then opens next drawing

Running the batch file

• Batch file is all one line
• Batch file function for %%f required
• Use the RUN option of Windows Start
• or Create an icon to run batch file
• Automatically purges all drawings
Question and Answers...

Mahalo…

• R. Yoshi Honda
• yoshi.honda@pacificcadd.com
• www.pacificcadd.com